THE NAUTILUS.

LAND SHELLS OF VANCOUVER ISLAND.

BY H. A. PILSBRY AND C. MONTAGUE COOKE.

During part of July and August one of us (C. M. C.) spent some time at Vancouver Island. Land shells were nowhere found in abundance, and in many places they seemed entirely wanting. Yet not much time was given to the search.

Vancouver Island, about four miles south of Union, in pine forest along road, above a deposit of fossil sea shells. On the ground and under bark. 24 & 25/vii/18.

Epiphragmophora fidelis (Gray).
Polygyra columbiana (Lea).
Polygyra germana vancouverinsulæ P. & C.
Haplotrema vancouverensis (Lea).
Zonitoides arborea (Say).
Striatura milium pugetensis (Dall).
Pristiloma stearnsi (Bland).
Euconulus fulvus (Müll).

Vancouver Island, near lower end of Cameron Lake, in open pine forest above hotel. Most of the specimens under dead bark on the ground. 1–12/viii/18.

Epiphragmophora fidelis (Gray).
Polygyra columbiana (Lea).
Polygyra germana vancouverinsulæ P. & C.
Haplotrema vancouverensis (Lea).

Haplotrema sportella (Gld.).
Zonitoides arborea (Say).
Zonitoides cookei Pils.
Polita hammonis (Strom).
Striatura milium pugetensis (Dall).
Pristiloma stearnsi (Bland).
Euconulus fulvus (Müll).
Punctum pygmæum (Drap.).
Vertigo columbiana Sterki.
Cochlicopa lubrica (Müll).

POLYGYRA GERMANA VANCOUVERINSULÆ n. subsp.   The shell is more openly umbilicate than typical *germana* with a decidedly stronger, higher parietal tooth.   Hairs of the surface space very delicate and more or less fully deciduous in adults.   Height 4.5 diam., 6.8 mm.; 5¼ whorls.

Cameron Lake.   Type 44538 A. N. S. P.; paratype in Bishop Museum, Honolulu.   Also found about 4 miles south of Union.

DESCRIPTION OF A NEW ZONITOIDES.

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ZONITOIDES COOKEI n. sp.   Fig. 1.

The shell is discoidal, the spire very slightly convex, umbilicus regularly diminishing inward, very nearly one-fourth the
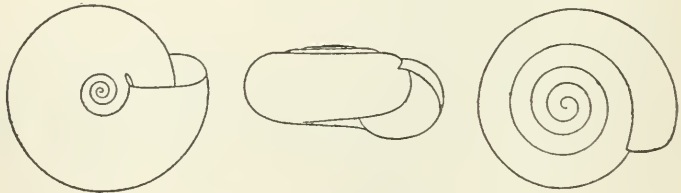

Fig. 1.   Zonitoides cookei.

diameter of the shell; whitish, glossy, smoothish, under the microscope showing faint growth lines and on the upper sur-